bio-protocol Preprint

Not Peer Reviewed
Ask a question online

Oxygen-glucose deprivation (OGD)

MR Miren Revuelta TS Thomas Schmitz

Updated date: Jun 30, 2022

An abbreviated version of this protocol was published in Aging (Albany NY) in Feb 2021

In vitro P38MAPK inhibition in aged astrocytes decreases reactive astrocytes, inflammation and increases nutritive capacity after oxygen-glucose deprivation

DOI: 10.18632/aging.202651

Detailed protocol

The protocol is simple,
-polilisine during at least 30 min the plates and clean afterwards with PBS.
-Seed the cells (100000cell/well for IF, 200000 cell/well for RNA and 500000 cell/well for WB)
-After 24h clean the plates with PBS and add medium without glucose to OGD samples.
-Incubate the cells during 4h (5%CO2, 0% O2 and 95% N2 at 37°C).
-Remove the samples with a scrapper, centrifuge 5 min at 15000 rpm and froze them.

How to cite: (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Revuelta, M. and Schmitz, T. (2022). Oxygen-glucose deprivation (OGD). Bio-protocol Preprint. bio-protocol.org/prep1760.
2. Revuelta, M., Elicegui, A., Scheuer, T., Endesfelder, S., Bührer, C., Moreno-Cugnon, L., Matheu, A. and Schmitz, T.(2021). In vitro P38MAPK inhibition in aged astrocytes decreases reactive astrocytes, inflammation and increases nutritive capacity after oxygen-glucose deprivation. Aging (Albany NY) 13(5). DOI: 10.18632/aging.202651

Copyright: Content may be subjected to copyright.